

LANCASTER COUNTY

395947076145902. Local number, LN 2038.

LOCATION.--Lat 39°59'47", long 76°14'59", Hydrologic Unit 02050306, 50 ft upstream from box culvert on Mentzer Road, 0.2 mi north of the intersection with SR 741, and 0.5 mi northwest of Lampeter.

Owner: U.S. Geological Survey.

AQUIFER.--Quaternary age alluvium.

WATER-LEVEL RECORDS

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. PVC, depth 6.6 ft, cased to 6.6 ft, closed end, screened from 4 to 5 ft.

INSTRUMENTATION.--Pressure transducer and data logger with 60-minute recording interval.

DATUM.--Land-surface datum is 347.84 (revised) ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--In addition to the daily mean water level table shown below, daily maximum and minimum water levels are also available from the District Office.

PERIOD OF RECORD.--June 1994 to current year.

REVISIONS.--Daily mean elevations published for water years 1994, 1995, 1996, and 1997 have been revised. Revised records are available from the District Office.

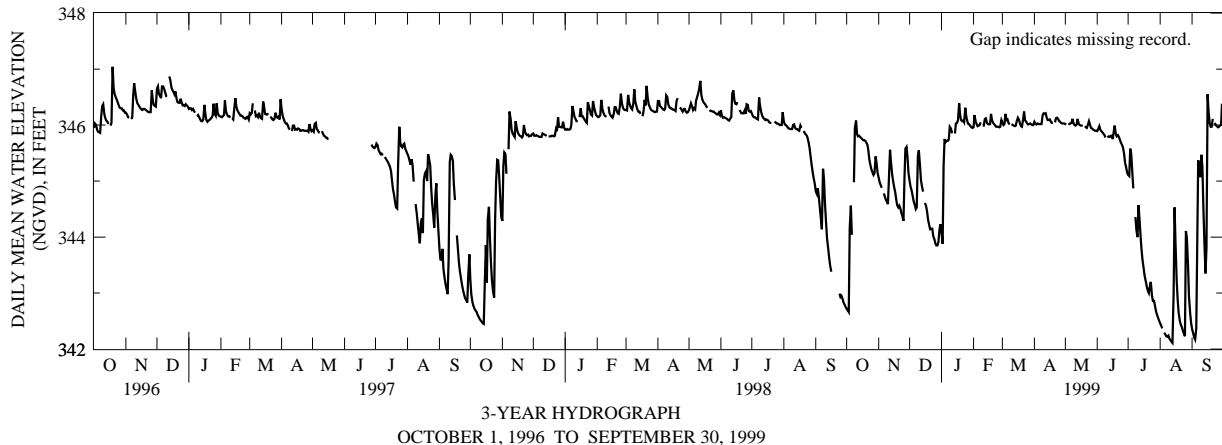
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the daily mean water level elevation for the period of record indicated above.

Highest water level, 347.06 ft, Jan. 19, 1996; lowest water level, 342.11 ft, Aug. 13, 1999.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342.72	345.06	345.00	344.09	345.96	346.05	346.06	346.02	345.89	345.11	342.46	342.36
2	342.69	344.98	344.90	343.88	346.18	346.00	346.03	346.01	345.94	345.09	342.42	342.28
3	342.66	344.93	344.82	345.28	346.06	346.02	346.01	---	345.98	345.58	342.37	342.21
4	344.16	344.88	344.73	345.75	346.02	346.20	346.03	346.03	345.92	345.49	---	342.17
5	344.56	---	344.64	345.70	345.98	346.09	346.02	346.02	345.89	345.15	342.29	342.37
6	344.04	344.78	344.57	345.72	345.99	346.10	346.02	346.03	345.87	344.87	342.26	343.90
7	---	344.72	344.50	345.72	346.00	346.04	346.02	346.04	345.85	---	342.23	345.37
8	344.98	344.67	344.53	345.74	346.05	346.01	346.02	346.11	345.82	344.36	342.22	345.30
9	345.95	344.63	345.45	345.97	---	---	346.18	346.03	345.78	344.13	342.24	345.07
10	346.08	344.59	345.55	345.94	345.99	346.02	346.21	346.00	---	344.00	342.19	345.47
11	345.84	345.03	345.28	345.87	345.99	346.00	346.20	345.99	345.81	344.57	342.16	345.24
12	345.80	345.56	345.02	345.87	346.11	345.99	346.21	346.01	345.79	344.34	342.13	344.53
13	345.81	345.34	344.91	---	346.12	345.98	346.13	346.11	345.79	344.01	342.11	343.83
14	345.79	345.12	344.81	345.85	346.04	345.99	346.09	346.02	345.81	343.77	342.98	343.35
15	345.77	345.00	---	346.03	346.02	346.07	346.09	346.00	345.81	343.59	344.53	343.80
16	345.75	344.90	344.61	346.04	346.01	346.13	346.10	345.99	345.75	343.44	343.88	346.55
17	345.73	344.80	344.55	346.09	346.02	346.10	346.06	345.99	345.88	343.31	343.22	346.24
18	345.73	344.68	344.45	346.39	346.20	346.04	346.04	345.99	345.99	343.21	342.88	346.03
19	345.72	344.57	344.31	346.18	346.09	345.98	346.04	---	345.84	343.12	342.65	345.97
20	345.69	344.53	344.21	346.09	346.04	345.97	---	345.98	345.80	343.05	342.51	345.97
21	345.65	344.56	344.14	346.07	346.02	346.10	346.05	345.96	345.82	343.00	342.44	346.11
22	345.55	344.51	344.15	346.08	345.99	346.24	346.12	345.95	345.79	343.12	342.39	---
23	345.39	344.43	344.15	346.05	345.97	346.09	346.13	346.01	345.74	343.20	342.33	346.04
24	345.28	344.38	344.02	346.31	345.97	346.06	346.11	346.07	345.68	342.96	342.28	346.00
25	345.21	344.29	343.96	346.16	345.97	346.03	346.07	346.00	345.65	342.86	342.23	345.98
26	345.15	345.03	343.89	346.06	345.96	346.01	346.06	345.95	345.60	342.86	344.11	345.96
27	345.11	345.58	343.85	346.02	345.97	346.02	346.04	345.94	345.49	342.77	343.99	345.97
28	345.14	345.61	343.85	346.01	346.09	346.03	346.03	345.92	345.33	342.68	343.50	345.99
29	345.44	345.43	343.91	345.98	---	346.01	346.03	345.91	345.24	342.61	342.94	346.00
30	345.32	345.15	344.15	345.96	---	346.00	346.03	345.90	345.15	342.56	342.64	346.38
31	345.15	---	344.23	345.95	---	346.00	---	345.90	---	342.51	342.47	---
MEAN	345.13	344.89	344.50	345.83	346.03	346.05	346.08	346.00	345.75	343.71	342.70	344.91
MAX	346.08	345.61	345.55	346.39	346.20	346.24	346.21	346.11	345.99	345.58	344.53	346.55
MIN	342.66	344.29	343.85	343.88	345.96	345.97	346.01	345.90	345.15	342.51	342.11	342.17

WTR YR 1999: HIGHEST 346.55, SEPTEMBER 16; LOWEST 342.11, AUGUST 13.



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WATER-QUALITY RECORDS

REMARKS.--Samples collected with peristaltic pump from recovery water after well pumped dry.
 PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	OXYGEN, DIS-SOLVED (MG/L) (00300)	TEMPER-ATURE WATER (DEG C) (00010)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT 07...	0930	1028	80020	4.29	915	7.1	2.5	17.3	220
NOV 05...	1045	1028	80020	3.01	764	7.1	2.0	13.2	K8
DEC 15...	1140	1028	80020	3.14	769	7.1	5.9	10.4	61
JAN 13...	1025	1028	80020	1.97	772	7.2	--	5.7	400
FEB 09...	1010	1028	80020	1.84	907	7.0	1.9	6.5	200
MAR 09...	1050	1028	80020	1.84	874	7.0	1.9	5.8	95
APR 20...	1045	1028	80020	1.78	750	7.1	.5	8.9	27
MAY 03...	1200	1028	80020	1.81	--	--	--	--	--
19...	0940	1028	80020	1.81	810	6.8	.5	11.5	29
JUN 10...	0925	1028	80020	2.02	799	7.0	--	15.0	K16
JUL 07...	0930	1028	80020	3.18	800	6.7	--	16.6	K9
AUG 04...	0925	1028	80020	5.49	--	--	--	--	--
SEP 22...	1025	1028	80020	1.53	880	6.8	1.5	17.9	220

DATE	ALKA-LINITY WAT DIS TOT IT LAB (MG/L AS CACO3) (39087)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT 07...	230	<.010	16.9	.036	.48	.022	.020	--	--
NOV 05...	257	--	12.4	--	--	--	--	--	--
DEC 15...	252	--	11.2	--	--	--	--	--	--
JAN 13...	220	<.010	15.5	<.020	.26	.016	--	130	16
FEB 09...	--	--	28.2	--	--	--	--	--	--
MAR 09...	--	--	20.6	--	--	--	--	--	--
APR 20...	238	.052	15.0	<.020	.44	.012	--	--	--
MAY 03...	--	.037	14.3	.051	.34	<.050	.023	--	--
19...	--	--	13.2	--	--	--	--	--	--
JUN 10...	--	--	11.7	--	--	--	--	--	--
JUL 07...	264	.075	10.6	<.020	.23	.016	--	--	--
AUG 04...	--	--	7.71	.027	--	--	--	--	--
SEP 22...	--	--	32.4	<.020	--	--	--	--	--

